

ABSTRACT

[1075] Techniques to generate a pseudo-random number (PN) sequence at a desired phase using “masking” to adjust the phase of the PN sequence in coarse increments (e.g., 64-PN chip increments) to account for a large phase adjustment. Slewing may then be used to adjust the PN phase in fine increments (e.g., 1/8 PN chip increments) to obtain the desired phase. Prior to each scan for the pilot from a particular base station, a PN mask corresponding to a phase closest to the start of a new search window is applied to a PN generator to obtain an initial phase for the PN sequence. From the initial phase obtained by the applied mask, the PN generator is then slewed to the start of the search window. The masking can be used to obtain a large phase adjustment in less time, which is likely to improve search performance.